Liquid Cooling System
Inventor: Brian A. Hamman
Docket No. QNX001
Attorney: Vernon E. Williams
(972) 516 - 4206
9 Sheets of Drawings

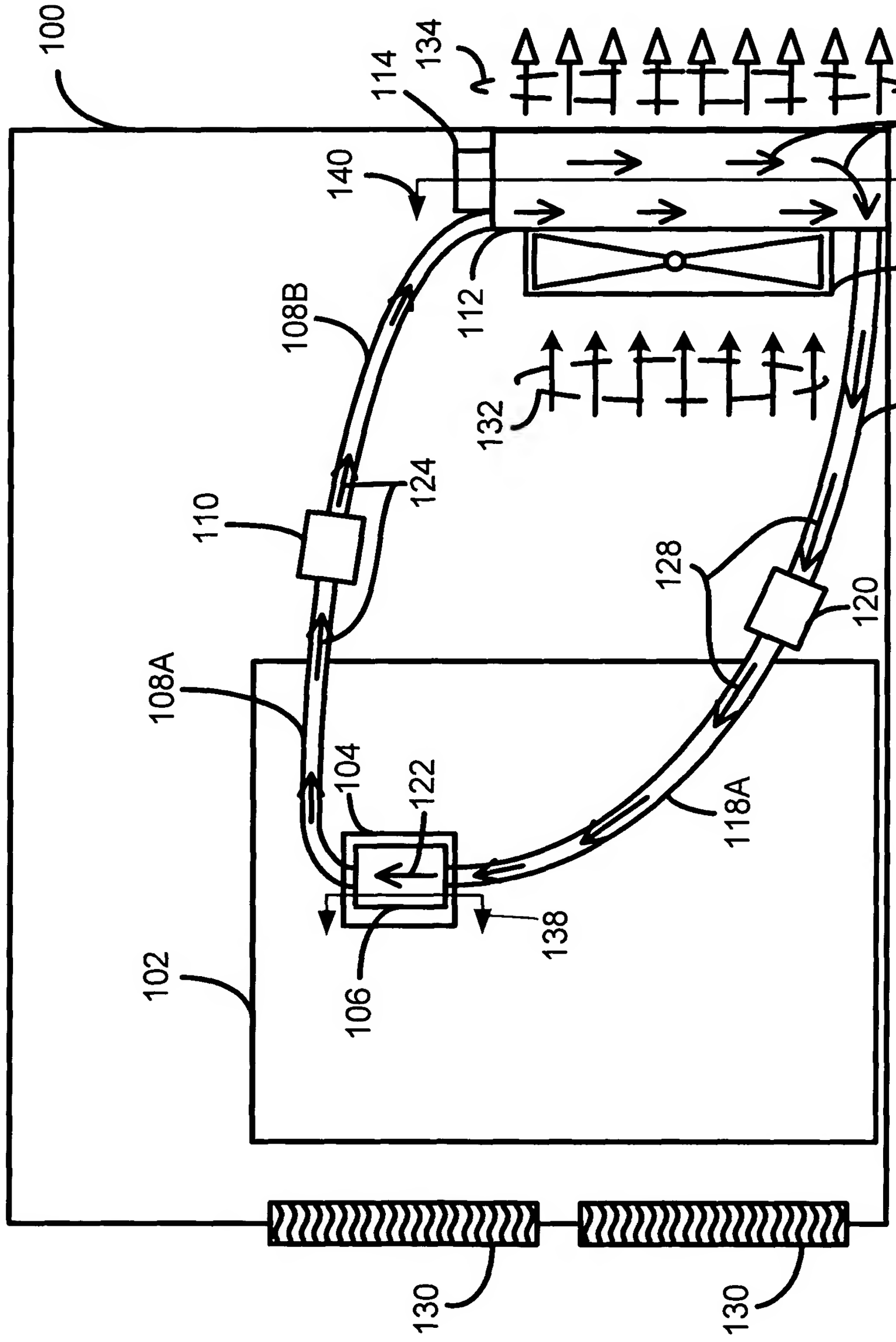

Fig. 1

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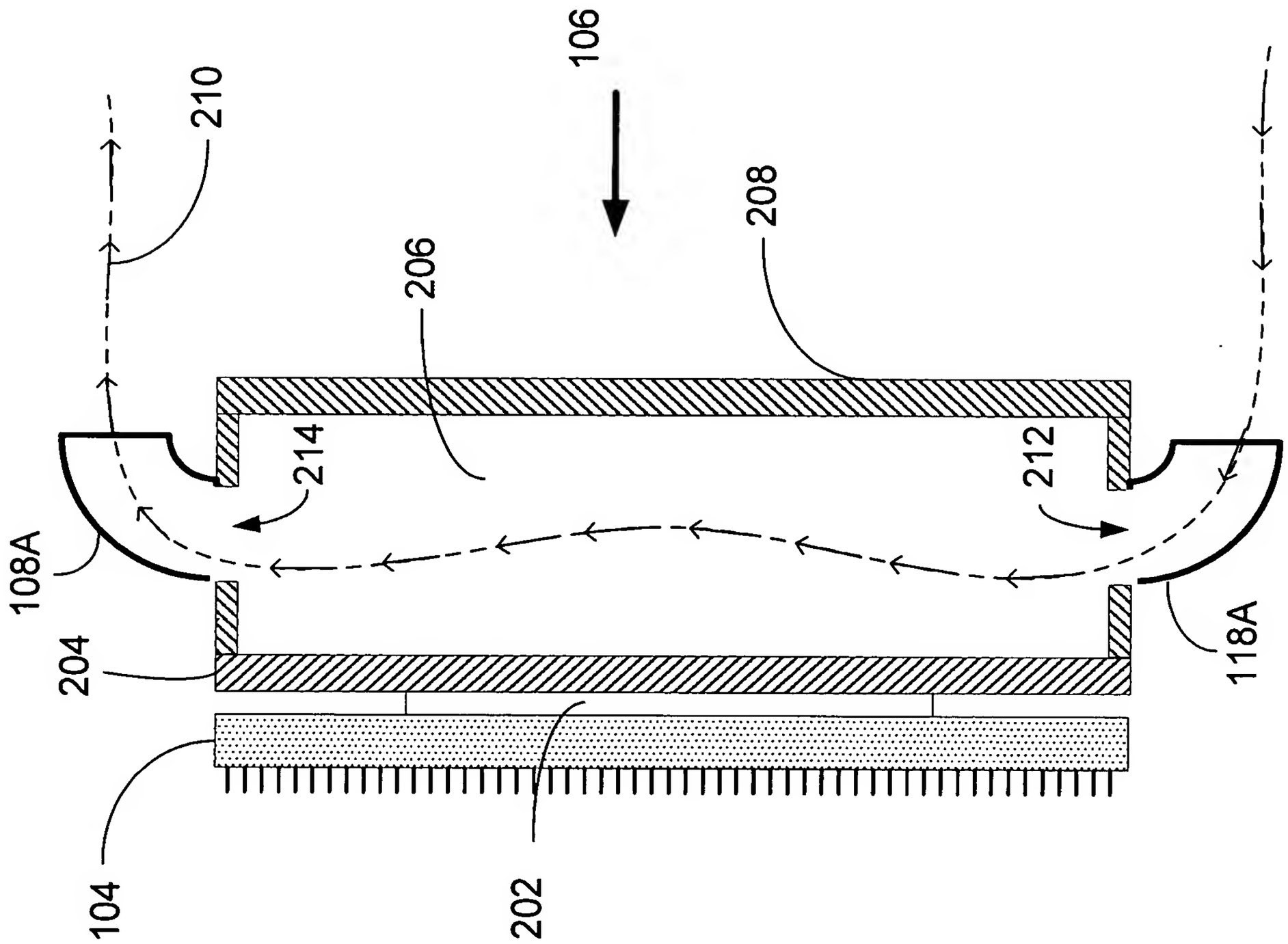

Fig. 2

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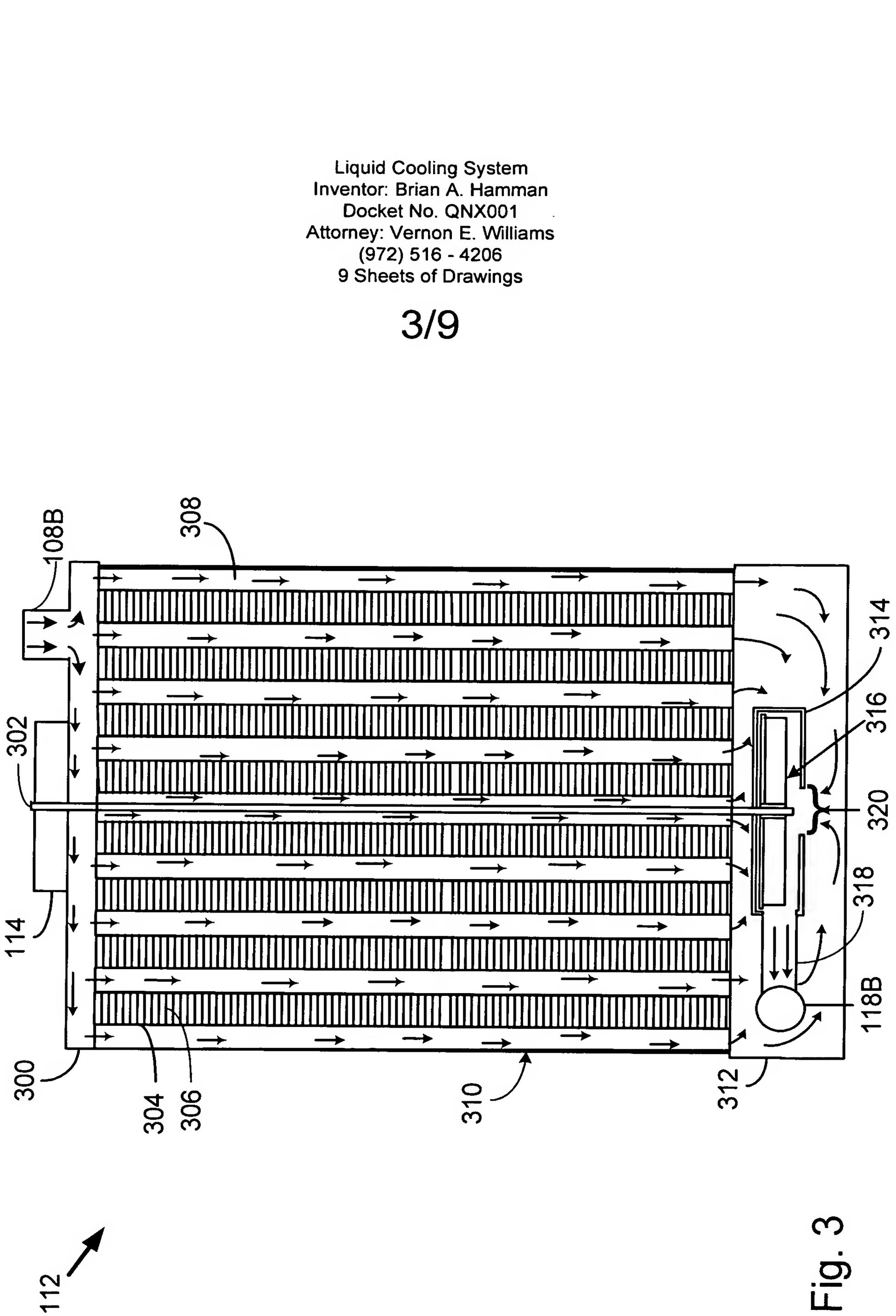

Fig. 3

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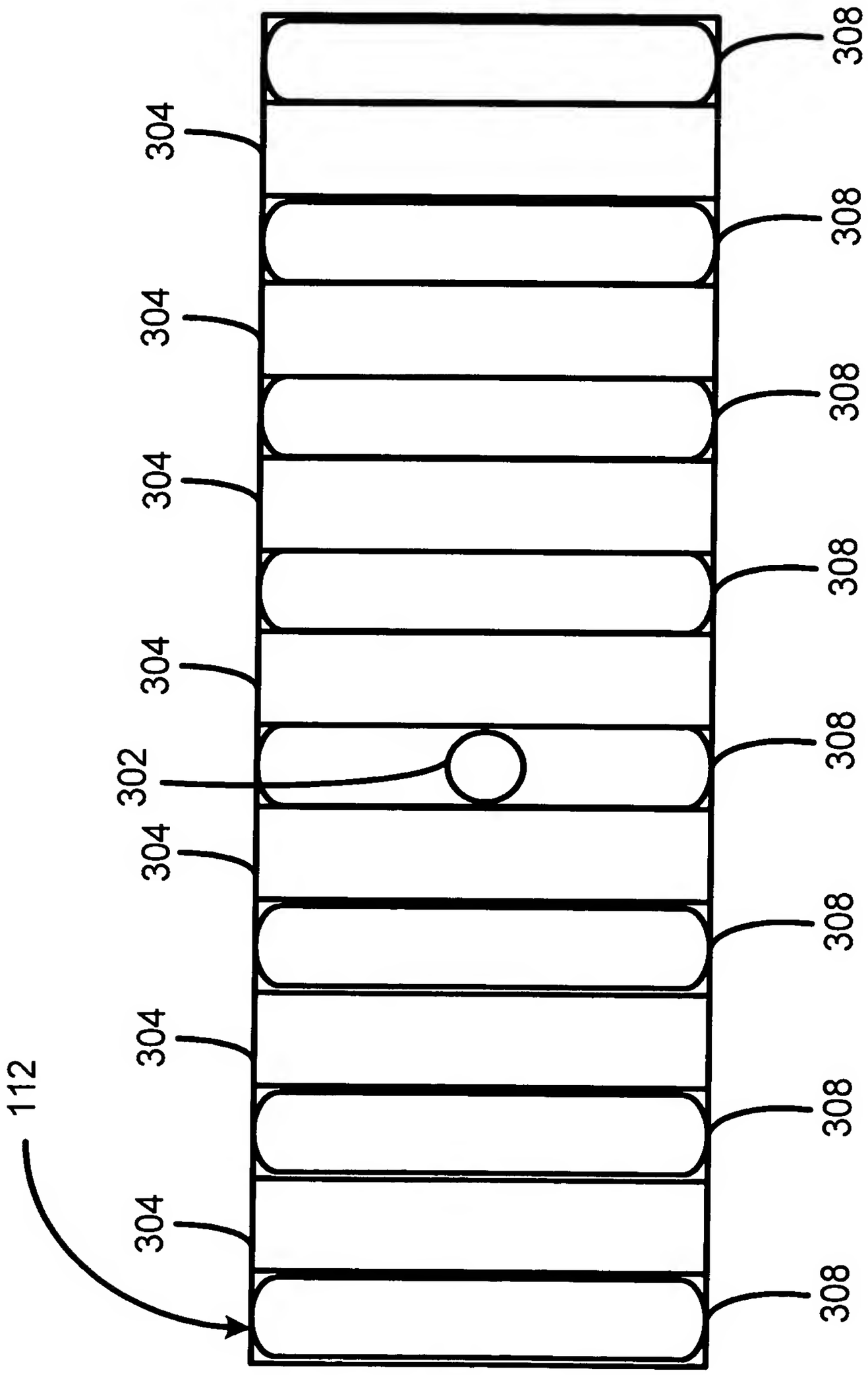

Fig. 4

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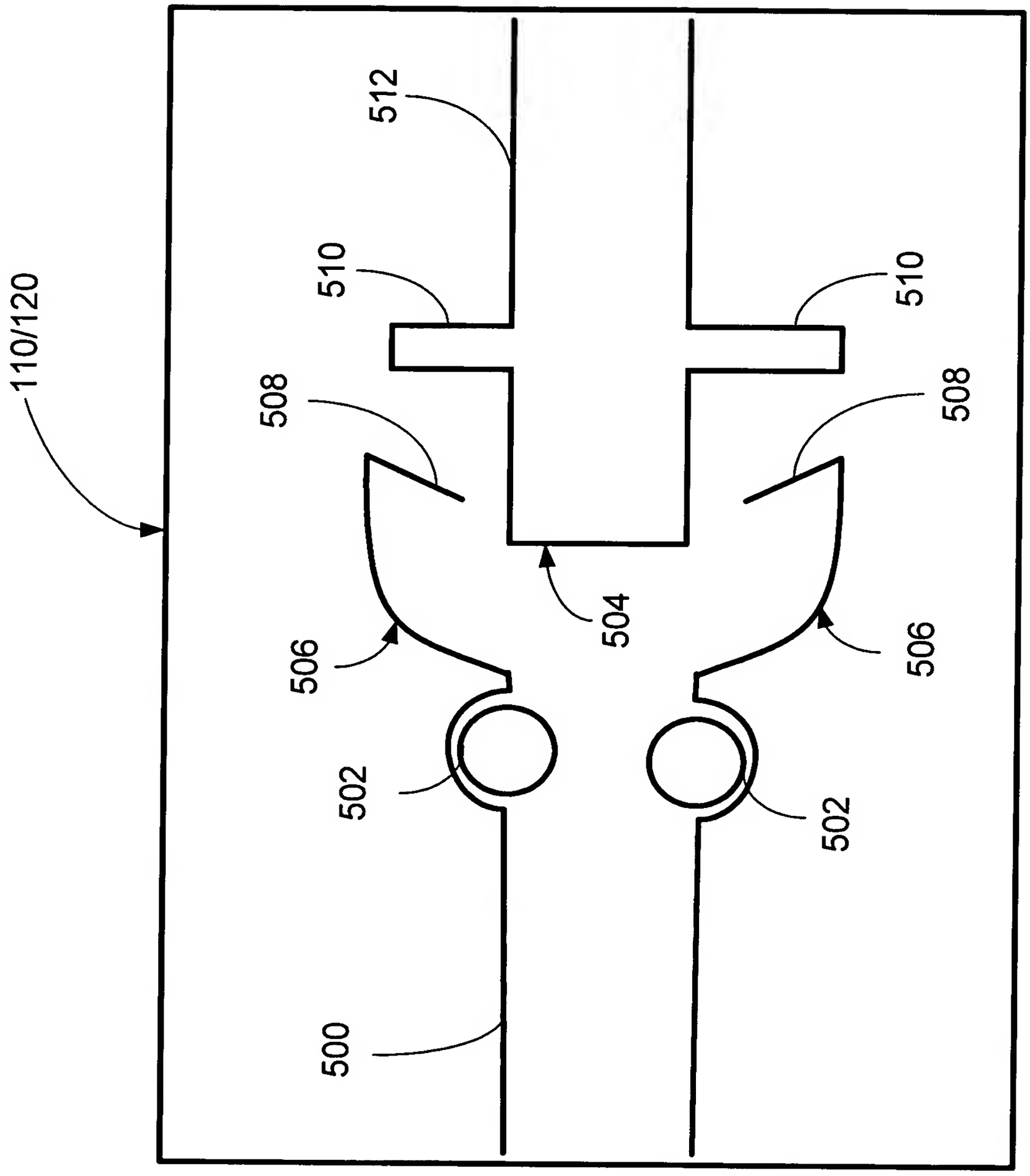

Fig. 5

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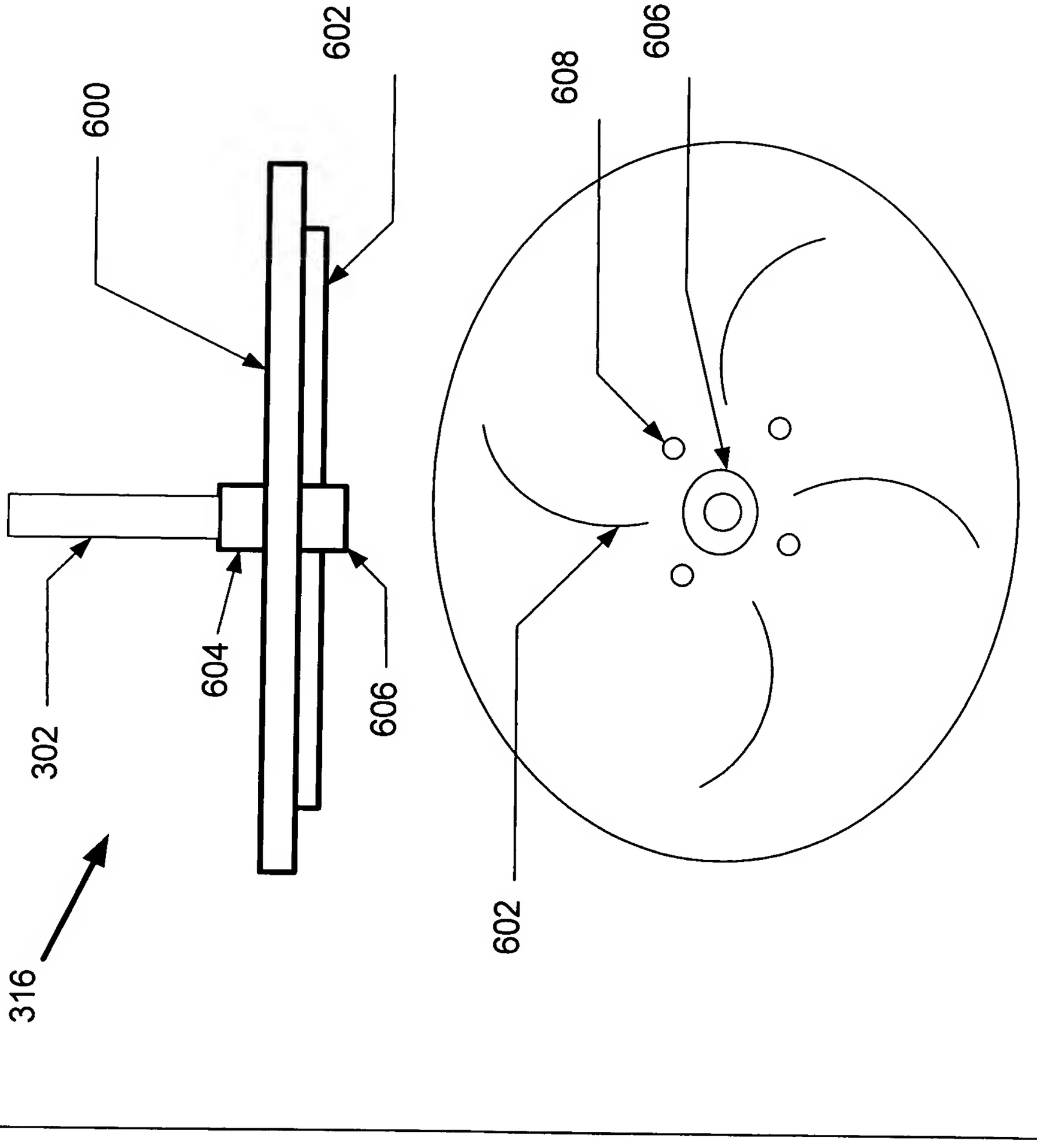

Fig. 6

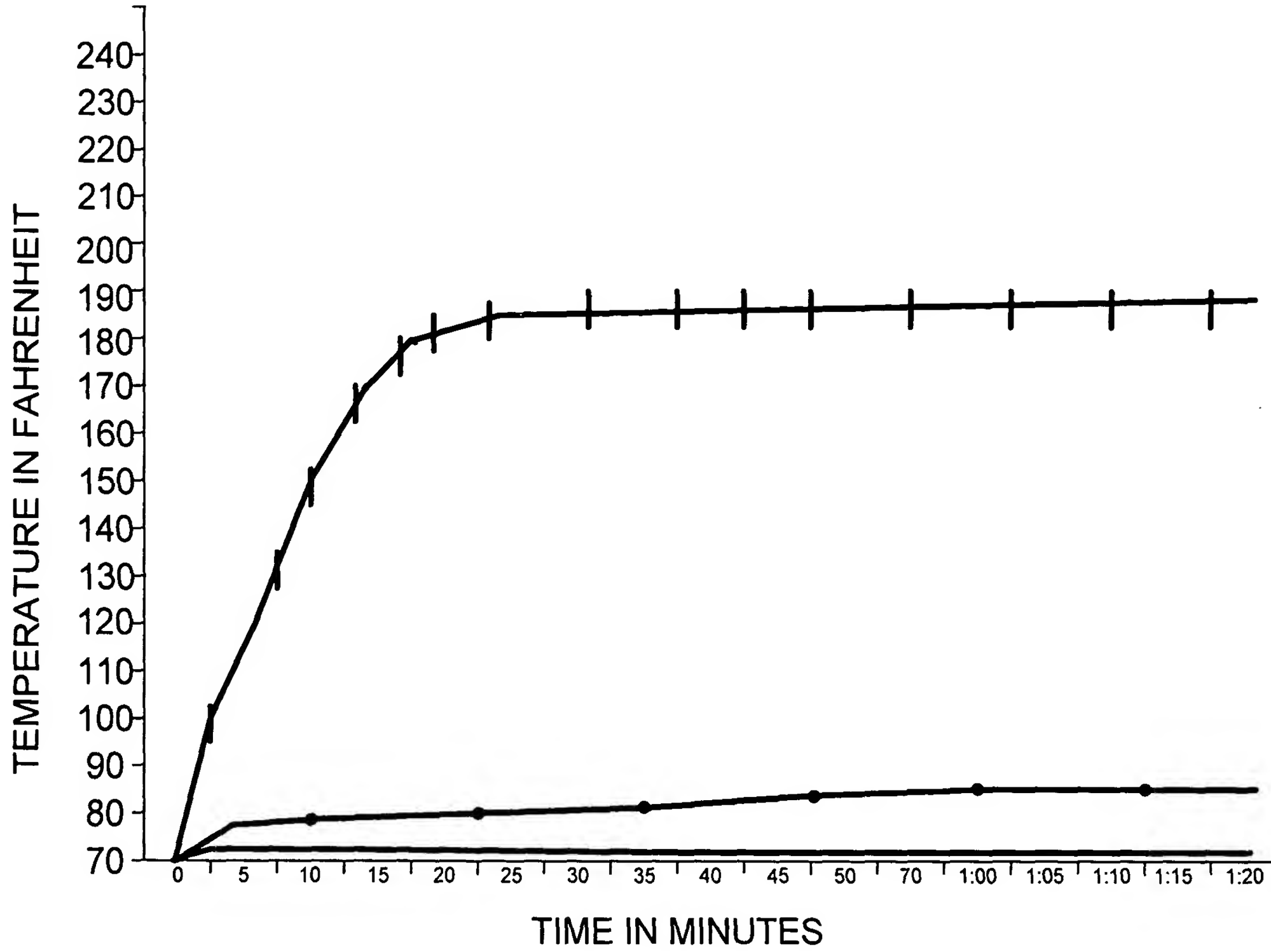
TEMPERATURE IN FAHRENHEIT
240
230
220
210
200
190
180
170
160
150
140
130
120
110
100
90
80
70
0
5
10
15
20
25
30
35
40
45
50
70
1:00
1:05
1:10
1:15
1:20
TIME IN MINUTES
PROCESSOR HEAT SINK TEMPERATURE AT INITIAL BOOT UP OF THE SYSTEM
Ambient Temperature
Processor with Liquid Cooling
Processor with Standard Cooling

Fig. 7

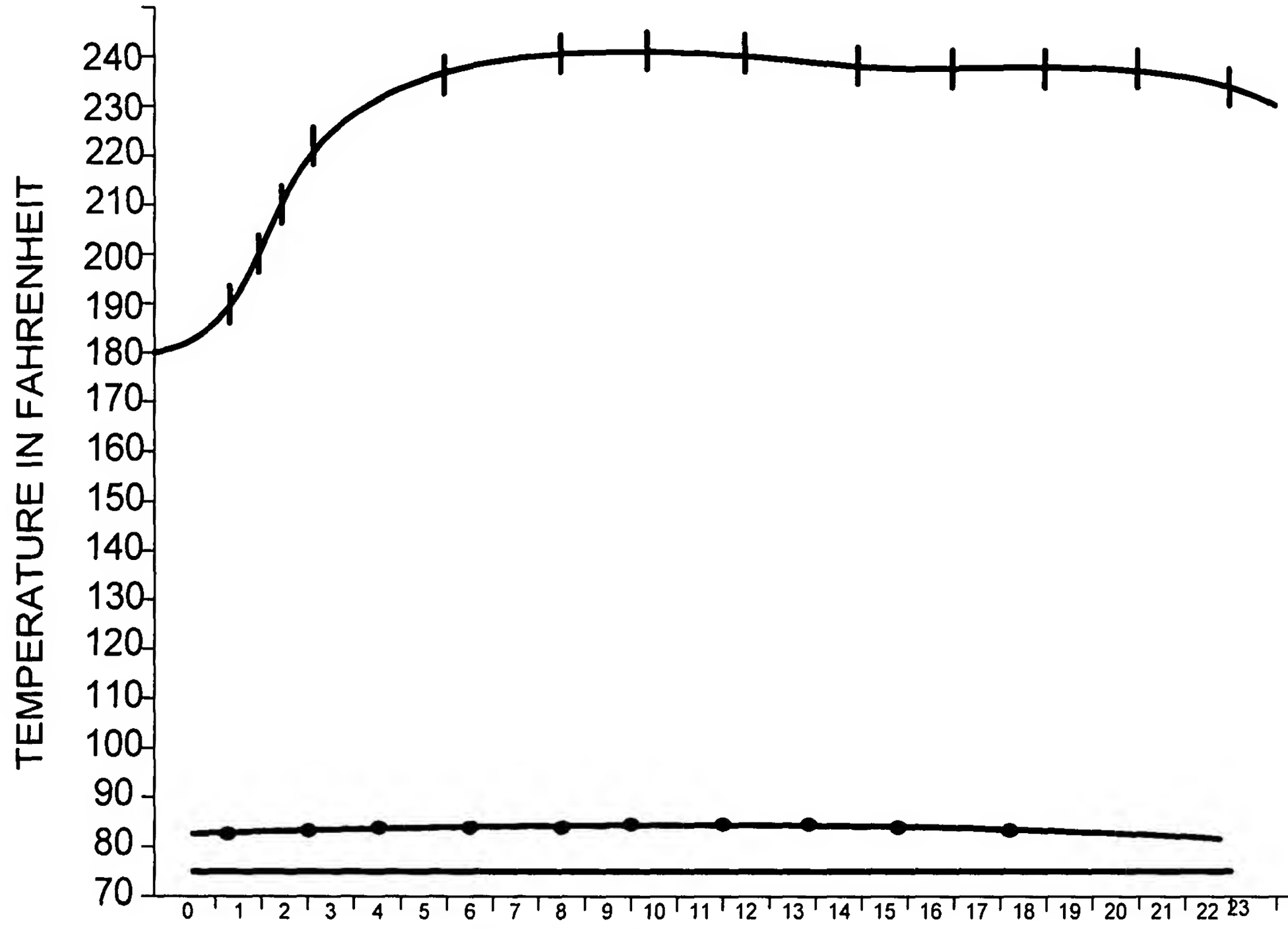
TEMPERATURE IN FAHRENHEIT
240
230
220
210
200
190
180
170
160
150
140
130
120
110
100
90
80
70
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
TIME IN MINUTES
PROCESSOR HEAT SINK TEMPERATURE AFTER SHUTDOWN
Ambient Temperature
Processor with Liquid Cooling
Processor with Standard Cooling

Fig. 8

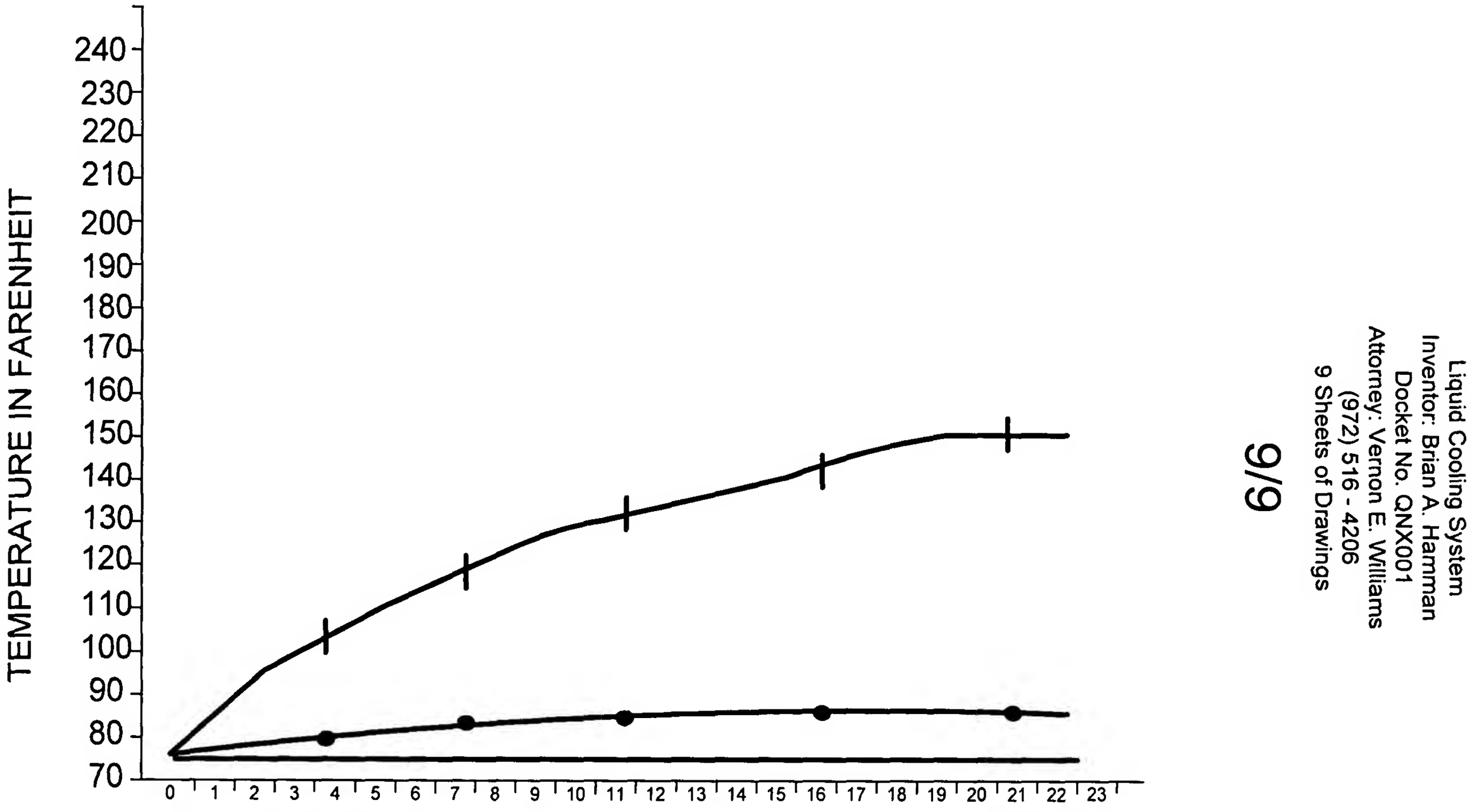
TEMPERATURE IN FARENHEIT
240
230
220
210
200
190
180
170
160
150
140
130
120
110
100
90
80
70
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
TIME IN MINUTES
INTERNAL HOUSING TEMPERATURE
Ambient temperature
Processor with Liquid Cooling
Processor with Standard Cooling

Fig 9